

IN THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1. (Original) A method of operating a projection-type system configured to pass light emitted from a high-pressure discharge lamp lit by d.c. lighting through divided plural color segments of a color filter sequentially to project an image onto a screen, characterized by superimposing a pulse current on a d.c. lamp current in synchronism with at least one specific color segment.

2. (Original) A projection-type system for projecting an image onto a screen by passing light emitted from a high-pressure discharge lamp lit by d.c. lighting through divided plural color segments of a color filter sequentially, characterized by comprising the high-pressure discharge lamp, and d.c. lighting means for lighting the high-pressure discharged lamp by feeding a d.c. lamp current to the high-pressure discharge lamp while superimposing a pulse current on the d.c. lamp current periodically, the pulse current being superimposed in synchronism with at least one specific color segment.

3. (Currently Amended) The ~~projection-type system of and the method of operating the same according to claim 1 or 2~~, wherein the color filter comprises a rotatable color wheel divided into divided segments on a color basis.

4. (Currently Amended) The ~~projection-type system of claim 2 and the method of operating the same according to any one of claims 1 to 3~~, wherein: the color filter comprises divided four color segments which are colored red, green, blue and white, respectively; and the pulse current is superimposed within confines of the white segment.

5. (Currently Amended) The ~~projection-type system of claim 2 and the method of operating the same according to any one of claims 1 to 3~~, wherein: the color filter comprises divided three color segments which are colored red, green and blue, respectively; and the pulse current is superimposed within confines of the red segment.

6. (Currently Amended) The ~~projection-type system of claim 2 and the method of operating the same according to any one of claims 1 to 5~~, wherein a pulse superimposing power fed to the high-pressure discharge lamp is not less than 1% of a rated power of the high-pressure discharge lamp.

7. (Currently Amended) The ~~projection-type system of claim 2 and the method of operating the same according to any one of claims 1 to 6~~, wherein: a pulse repetition period (t_s) of the pulse current (P) is determined to fall within a range from 0.2 msec to 20 msec; a ratio (I_p/I_o) of a mean pulse height (I_p) of the pulse current (P) to a mean current value (I_o) of the lamp current is determined to fall within a range from 0.1 to 2; and a ratio (t_p/t_s) of an effective pulse width (t_p) of the pulse current (P) to the pulse repetition period (t_s) of the pulse current (P) is determined to fall within a range from 0.005 to 0.5.

8. (New) The method claim 1, wherein the color filter comprises a rotatable color wheel divided into divided segments on a color basis.

9. (New) The method claim 1, wherein: the color filter comprises divided four color segments which are colored red, green, blue and white, respectively; and the pulse current is superimposed within confines of the white segment.

10. (New) The method claim 1, wherein: the color filter comprises divided three color segments which are colored red, green and blue, respectively; and the pulse current is superimposed within confines of the red segment.

11. (New) The method claim 1, wherein a pulse superimposing power fed to the high-pressure discharge lamp is not less than 1% of a rated power of the high-pressure discharge lamp.

12. (New) The method claim 1, wherein: a pulse repetition period (t_s) of the pulse current (P) is determined to fall within a range from 0.2 msec to 20 msec; a ratio (I_p/I_o) of a mean pulse height (I_p) of the pulse current (P) to a mean current value (I_o) of the lamp current is determined to fall within a range from 0.1 to 2; and a ratio (t_p/t_s) of an effective pulse width (t_p) of the pulse current (P) to the pulse repetition period (t_s) of the pulse current (P) is determined to fall within a range from 0.005 to 0.5.